

Ruangsak Komkhuntod 2007: Development of Production Technology of Sugar Apple and *Annona* Hybrids in Pakchong District, Nakhon Ratchasima Province. Master of Science (Agricultural Research and Development), Major Field: Agricultural Research and Development, Interdisciplinary Graduate Program. Thesis Advisor: Associate Professor Kawit Wanichkul, Dr.agr. 196 pages.

The development of sugar apple and *Annona* Hybrids production technology aimed to enhance quality and yield of product. The results was analysed by both collected secondary data and interviewed *Annona*'s growers in Pakchong District, Nakhon Ratchasima Province between January to September, 2006. The finding revealed that the farmers had cultural practices such as: 1) grafting with sugar apple seedling as rootstock 2) flowering control was practiced in season and off- season by pruning 3) integrated organic and inorganic fertilizers usage. Moreover, the resulted showed that there were several modes to develop production technology including: using appropriated improving cultivars and propagation method, integrated pest management control, efficiency of fertilizer application and irrigation management, requirement of plant hormone usage, thinning and bagging fruits, appropriated harvest and post-harvest technology and good marketing supply chain. The results of an analysis compared with GAP requirement showed that the farmers had to improve their production system such as: cultivar selection, soil management, fertilizer application, irrigation management, crop protection, harvesting and post-harvest handing, environmental management, healthy, safety and welfare management, buyer complaint form, internal inspection, traceability, record keeping, and site history and management

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